

OXG-0708-60

Copy 5 of 5

14 July 1960

MEMORANDUM FOR : Deputy Director (Plans)
SUBJECT : J-58's Engine Design Compromises

1. Subsequent to the last OXCART supplier's meeting, [redacted] traveled to West Palm Beach, Florida, primarily to begin piecing together the anticipated problems in weight, cost, and time associated with design choice of the [redacted] engine versions.

2. [redacted] first report deals with the current weight status of the engine. This indicates that the current expected weight for the first flight test engine is estimated at 6,097 pounds versus a specification weight for the first flyable engine of 5,677 pounds.

3. In order that the specification weight can be reached, Pratt & Whitney will have to substitute titanium in place of the originally planned stainless steel or vaspaloy materials, [redacted]

4. The exact identification of the affected parts and the assessment of design choice of the materials, weights, and allowable temperature performance is under detailed study by Pratt & Whitney.

5. The attached report by [redacted] is an excellent summary of the situation as it now stands. [redacted] will devote a good deal of attention to this problem until at least the next scheduled suppliers' meeting.

Attachment: OXC-0617

CH/TAS/DPD/EPK/[redacted]
14 July 1960

Distribution: O & 1 - DD/P w/att
1 - DB/DPD wo/att
1 - CH/TAS/DPD wo/att
1 - RI/DPD wo/att

EUGENE P. KIEFER
Chief, Technical Analysis Staff
DPD-DD/P

131
2012
DATE: 8/11/80